

## **Hatchery: Oxbow Hatchery**

### **Program: Coho (Mixed Tanner Creek and Sandy River Stock: CEDC Releases)**

### **Operating Agency: Oregon Department of Fish and Wildlife**

## **Background**

Oxbow Hatchery is located approximately 2 miles east of Cascade Locks, Oregon. Herman Creek Ponds, Lower Herman Creek Ponds, and Wahkeena Pond are operated as satellite facilities to Oxbow Hatchery. The hatchery is used for incubation and early rearing of Spring Chinook, Fall Chinook, and Coho.

## **Facility**

The Oxbow Hatchery includes 12 concrete raceways, incubation, and early rearing facilities. Oxbow Hatchery was originally constructed in 1913 to provide additional rearing facilities for Bonneville Hatchery. It was relocated to its present site in 1937 following construction of Bonneville Dam. Oxbow was operated as part of the Columbia River Fisheries Development Program (Mitchell Act) - a program to enhance declining fish runs in the Columbia River Basin.

## **Results**

The Oxbow Hatchery - Coho (Mixed Tanner Creek and Sandy River Stocks: CEDC Release) program was in general compliance with most of the performance measures. In the area of program objectives, the hatchery needed to document adult contribution, fry-to-smolt survival, and smolt-to-adult survival. The audit found that the hatchery was not in compliance with the water quality monitoring requirements and needed double screen for upper Herman Creek Ponds. The hatchery was not in compliance with the requirements for regional oversight of feed manufacturing and needed to develop specific incubation and rearing standards. The hatchery did not have foot baths in the incubation facility.

The specific areas in which the Oxbow Hatchery - Coho (Mixed Tanner Creek and Sandy River Stocks: CEDC Release) program requires remedial actions based on the IHOT performance measures are listed below. These remedial actions are listed in alphabetical order without intent of ranking or otherwise assigning priority:

- Develop and maintain alarm log
- Develop specific incubation standards for the IHOT Operations Plan
- Develop specific rearing standards for the IHOT Operations Plan
- Document adult contribution
- Document fry-to-smolt survival and compare with goal
- Document smolt-to-adult survival
- Follow IHOT recommendations for regional oversight of feed production
- Improve green-egg to eyed-egg survival
- Install double screen on upper Herman Creek ponds
- Monitor and document DO and TGP levels
- Provide foot baths

- Run analysis for water chemistry parameters, alkalinity, hardness, nitrite, and contaminants

## Expenditure Information

Parameter	\$/year	Period
Range:	\$64,781-\$108,042	1994-1995
Average:	\$86,412	1994-1995

## Adult Contribution and Return Information

Parameter	Number/year	Smolt-Adult (%)	Period
Range:	No information provided	No information provided	
Average:	No information provided	No information provided	

## Hatchery Contribution Cost Index

Average Expenditure per Adult : No enough data to compute